NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Est-4

PROVIDING GYM EQUIMENTS

Sl No	Description	No	L	B	D	QTY	Unit	Rate	Amount
4.1	**Earth work excavation for foundation of structures by mechanical means** as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising / transporting the remaining earth locally upto 1.00km lead. (Depth upto 3.00 Mts) - in Ordinary/Hard soil. (PWD BCSR 2018-19,P-7,I-2.23)								
	SR REFERENCE	PWD SR 2018-19,Pg No,7,It No 2.23							
	BASIC RATE (₹)	52							
	AREA WEIGHTAGE 6% (₹)	3.12							
	TOTAL RATE (₹)	55.12							
	GYM AREA	1	17.00	17.00	0.30	86.70			
	allround	2	30.00	0.60	0.60	21.60			
	fencing poles	34	0.45	0.45	0.30	2.07			
						110.37	Cum	55.12	6083
4.2	**Providing and Filling in foundation with granite / trap broken metal 100mm.** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS								
	SR REFERENCE	PWD SR 2018-19,Pg No,6,It No 2.15							
	BASIC RATE (₹)	2429							
	AREA WEIGHTAGE 6% (₹)	145.74							
	TOTAL RATE (₹)	2574.74							
	GYM AREA	2	30.00	0.60	0.20	7.20			
	Total					**7.20**	Cum	2574.74	18538
4.3	**Providing and laying in position plain cement concrete of mix 1:2:4** with OPC cement @ 240kgs, **with 40mm and down size** graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-								
	SR REFERENCE	PWD BCSR 2018-19,Pg No,12,It No 4.1							
	BASIC RATE (₹)	5283							
	AREA WEIGHTAGE 6% (₹)	316.98							
	TOTAL RATE (₹)	5599.98							
	GYM AREA	1	15.00	15.00	0.15	33.75			
	fencing poles	34	0.45	0.45	0.10	0.69			
	Total					**34.44**	Cum	5599.98	192855
4.4	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-23,I-5.9)								
	SR REFERENCE	PWD SR 2018-19,Pg No,23,It No 5.9							

	BASIC RATE (₹)	5483								
	AREA WEIGHTAGE 6% (₹)	328.98								
	TOTAL RATE (₹)	5811.98								
	ALLROUD WALL	2	60	0.75	0.60	**54.00**	Cum	5811.98	313847
4.5	**Providing and laying in position plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD BCSR 2018-19, P-12 I-4.6)									
	SR REFERENCE	PWD SR 2018-19,Pg No,12,It No 4.6								
	BASIC RATE (₹)	5422								
	AREA WEIGHTAGE 6% (₹)	325.32								
	TOTAL RATE (₹)	5747.32								
	Flooring	1	15	15	0.12	27				
	Poles	34	0.45	0.45	0.4	2.754				
						29.754	Cum	5747.32	171006	
4.6	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4** with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (PWD BCSR 2018-19. P-25, I-5.30)									
	SR REFERENCE	PWD SR 2018-19,Pg No,25,It No 5.30								
	BASIC RATE (₹)	408								
	AREA WEIGHTAGE 6% (₹)	24.48								
	TOTAL RATE (₹)	432.48								
	allround	1	68	by 0.45 Each		285				
						285	No	432.48	123257	
4.7	**Providing and laying heavy duty cobble stones 60mm thick interlock pavers,** using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No. 101, I.No. 14.6 of CSR 2018-19)									
	SR REFERENCE	PWD SR 2018-19,Pg No,101,It No 14.6								
	BASIC RATE (₹)	1053								
	AREA WEIGHTAGE 6% (₹)	63.18								
	TOTAL RATE (₹)	1116.18								
	Access	2	20	2		80				
	Allrund	2	64	1.5		192				
						272	Sqm	1116.18	303601	

4.8	**Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 75** (Machine moulded Wirecut bricks) with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete (P W D SZSR 2018-19, P-27 I-6.20)								
	SR REFERENCE	PWD SR 2018-19,Pg No,27,It No 6.20							
	BASIC RATE (₹)	10118							
	AREA WEIGHTAGE 6% (₹)	607.08							
	TOTAL RATE (₹)	10725.08							
		2	60	0.23	0.5	13.8	Cum	10725.08	148006
4.9	**Providing ruled pointing to coursed stone masonry with cement mortar 1:4**, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P W D BCSR 2018-19, P-113 I-15.4)								
	SR REFERENCE	PWD SR 2018-19,Pg No,113,It No 15.4							
	BASIC RATE (₹)	140							
	AREA WEIGHTAGE 6% (₹)	8.4							
	TOTAL RATE (₹)	148.4							
		1	60		0.45	27	Sqm	148.40	4007

4.10	**Filling available excavated earth (excluding rock) in sides of foundations** and profile correction in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with a lead up to 50 m. and lift up to 1.5 m. including cost of all labour complete as per specifications (PWD BCSR 2018-19,P-6,I-2.10)								
	SR REFERENCE	PWD SR 2018-19,Pg No,6,It No 2.10							
	BASIC RATE (₹)	201							
	AREA WEIGHTAGE 6% (₹)	12.06							
	TOTAL RATE (₹)	213.06							
	BASMENT	1	14.5	14.5	0.6	126.15	CUM	213.06	26878
4.11	**Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps staircase made out of stainless steel hallow pipes,** using 50mm dia for verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged.								
	SR REFERENCE	PWD SR 2018-19,Pg No,43,It No 7.39							
	BASIC RATE (₹)	5378							
	AREA WEIGHTAGE 6% (₹)	322.68							
	TOTAL RATE (₹)	5700.68							
		1	68		1.2	81.6	Sqm	5700.68	465175
4.12	**Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring** conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.								
	SR REFERENCE	PWD SR 2018-19,Pg No,112,It No 14.62							
	BASIC RATE (₹)	1232							
	AREA WEIGHTAGE 6% (₹)	73.92							
	TOTAL RATE (₹)	1305.92							
	GYM AREA	1	15	15		225	Sqm	1305.92	293832

4.13	**Supply & fixing of Pull Down Challenger** : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have								
	Gym Equipment	1				1.00	Each	2,50,847.00	2,50,847.00
4.14	**Supply & fixing of Seated Chest Press :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have								
	Gym Equipment	1				1.00	Each	2,43,644.00	243644
4.15	**Supply & fixing of Rider :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL								

	Gym Equipment	1				1.00	Each	95,339.00	95339
4.16	**Supply & fixing of Self Weighted Rower :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL								
	Gym Equipment	1				1.00	Each	1,74,788.00	1,74,788.00
4.17	**Supply & fixing of Tai Chi Spinners :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts must have built in limitors that prevent								
	Gym Equipment	1				1.00	Each	1,21,822.00	1,21,822.00

4.18	**Supply & fixing of HD Sit Up Station :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and								
	Gym Equipment	1				1.00	Each	1,32,415.00	132415
4.19	**Supply & fixing of HD Squat Pushing :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have								
	Gym Equipment	1				1.00	Each	2,27,754.00	2,27,754.00

4.20	**Supply & fixing of HD Health Walker :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no humn stons or crush points. Bearings : Maintenance-free ball									
	Gym Equipment	1				1.00	Each	1,48,305.00	1,48,305.00
4.21	**Supply & fixing of HD Mini Ski :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the									
	Gym Equipment	1				1.00	Each	1,68,729.00	168729
4.22	**Supply & fixing of HD Waist Twister :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of									
	Gym Equipment	1				1.00	Each	1,37,712.00	1,37,712.00

4.23	**Supply & fixing of Leg Stretch :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent									
	Gym Equipment	1				1.00	Each	41,356.00	41,356.00
4.24	**Providing and fixing polished grey granite slab benches of size 5 feet** width of seating slab with bottom slab of 75 mm thick with 1.5 feet with, back rest slab 50 mm thick with 1.5 feet depth, side and slab of 100mm thick , 2.5 feet including bull nosing of all indges including fixing in CC 1:2:4 including loading and unloading and with all lead and lift complete and execuitng the work as per the directions of engineer of the work.**(Data rate approved) (BBMP approved rate)**								
	SR REFERENCE	BBMP APPROVED RATE							
	BASIC RATE (₹)	10550							
	AREA WEIGHTAGE								
	TOTAL RATE (₹)	10550							
	IN PARK AREA	1	6.00			**6.00**	NO	10,550.00	63300
	ADD 12% GST								496100
	ADD 18% GST								650164
	SUB TOTAL FOR ONE NUMBER								**3873096**
	SUB TOTAL FOR TWO NUMBER								**7746191**

10/1/20
Environmental Engineer
Lakes BBMP

10/1/2020
Assistant Executive Engineer
Lakes BBMP

Executive Engineer
Lakes BBMP

NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Est-5

PROVIDING CHILDREN PLAY EQUIPMENTS

Sl No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
5.1	**Earth work for lowering and levelling the ground other than foundation works by mechanical** means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required &utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification.(PWD BCSR 2018-19,P-8,I-2.24)								
	AREA LEVELING	1	15.00	15.00	0.30	67.50			
		1	60.00	0.90	0.60	32.40			
		1				**99.90**	cum	64.66	6460
5.2	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-19, P-12 I-4.1)								
	PLAY AREA OUTER SSM WALL	1	60.00	0.75	0.15	6.75			
						6.75	cum	5599.98	37800
5.3	**Providing and constructing granite / trap / basalt size stone masonry in basement** with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification .P-23, ITEM 5.9								
	PLAY AREA OUTER SSM WALL	1	60.00	0.70	0.60	25.20			
		1	60.00	0.45	0.45	12.15			
						37.35	cum	5811.98	217077
5.4	**Providing ruled pointing to coursed stone masonry with cement mortar 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining including cost of materials, labour, curing complete as per specifications .P-113, I 15.4								
	PLAY AREA OUTER SSM WALL	2	60.00		0.60	72.00			
						72.00	Sq.m	148.40	10685

Sl No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
5.5	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. PWD SR 2018-19 PG.13 IT.4.6								
	PLAY SIDE WALL COPING	1	60.00	0.45	0.10	2.70			
		40	0.40	0.45	0.40	2.88			
						5.58	cum	5747.32	32070
5.6	**Natural Sand** 5.6 to 75 microns								
	SR Referance	**PWD SR 2018-19 MATERIAL RATE PGNO.II SLNO.56**							
	Basic rate (₹)	**1680.95**							
	Area weightage (6%) (₹)	**100.86**							
	Total Rate (₹)	**1781.81**							
	CHILDREN PPLAY AREA	1	15.0	15.0	0.45	101.25	**cum**	1781.81	180408
5.7	**Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes** for Ramps staircase made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes fixed horizontally for 2-rows top, one pipes fixed with vertical pipes another one fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged.PWD SR 2018-19,Pg No,43,It No 7.39								
		2	60.0	1.2		144	Sq.m	5700.68	820898
5.8	**Supply and fixing of childern Play Equipment Fiero A Swing :** Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	1,07,536.00	107536

Sl No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
5.9	**Supply and fixing of childern Play Equipment Monker Bar VFM Support posts of height 1.82 m are to be schedule Galvanized steel with a 60 mm OD (Outer Diameter).**All the posts are to be finished with a baked on powder coat finish. Handrail of size 1.3 m and Dia 48 mm shall be an welded unit, fabricated from 48 O.D. galvanized steel pipes with a baked on powder coating finish. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be of tamper resistant stainless steel. Electro - statically applied polyester powder must have a tough finish with maximum durability. The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	80,263.00	80263
5.10	Supply and fixing of childern Play Equipment Four Seater Seesaw : SPECIFICATIONS The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 4 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	90,881.00	90881
5.11	**Supply and fixing of childern Play Equipment Merry go round - DX : The Merry go round consists of a round platform which is made of galvanized steel** and has a thickness of 2.5 mm. It is also power coated with the thickness of 2.5 mm. It is of Dia 1210 mm. It has 3 inverted "L" shaped handrails which is made of Galvanized steel and of dimensions as 474 mmx 815 mm. It has thickness of Dia 32 mm. The 3 handrails are separated exactly. All the 3 handrails are connected to the Centre with the help of a rod which is also made of Galvanized steel and of Dia 48 mm and height 815 mm. The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	72,068.00	72068
5.12	**Supply and fixing of childern Play Equipment Puppy dog Rider / Elephant rider / Horse rider** : : HDPE of size 0.83 m x 0.31 m x 0.87 m, Plastic Components [super thick plastic] shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with "color molded" in not "added in". All rotational molding is carried out in state of the art, precision, bi axial roto moulding machines which helps achieve guaranteed uniform wall thickness, seamless joints, accurate process control, one part construction to make it stress free. Specialized connectors such as clamps and couplings are to be cast from aluminium which is pre-treated, and cured, with a baked on powder coat finish.The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	47,268.00	47268

Sl No	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (₹)	AMOUNT (₹)
5.13	**Supply and fixing of childern Play Equipment Creppy Crawly climber: The wavey support bars are of height 1.5 m are to be schedule HOT DIP Galvanized steel with a 48 mm OD.** Powder coatings used is Akzo Nobel's. The finished products have the following typical characteristics: 0.5mm thickness, oven cured between 191oC and 220oC, to achieve Flexibility, Impact, Salt Spray (Corrosion) Resistance, Hardness, and Adhesion. All post caps are to be cast from aluminum which is pretreated, cured and sandblasted, 114mm diameter, with a baked on powder coat finish.Handrail of height Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. The Electro- statically applied polyester powder has a tough finish with maximum durability using AkzoNobel INTERPON paints application, and dual zone cure oven to a thickness of 0.5mm thickness, oven cured between 191oC and 220oC. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as per EN1176 standards as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well.The rates are to be inclusive of supply and installation at site.								
	Children Play Equipment	1				1.00			
						1.00	Each	1,88,225.00	188225
	ADD 12% GST								313295
	ADD 18% GST								211047
	SUB TOTAL FOR ONE NUMBER								**1891639**
	SUB TOTAL FOR TWO NUMBER								**3783277**

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EE LAKES DIVISION

BRUHAT BENGALURU MAHANAGARA PALIKE

(15)

NAME OF THE WORK : IMPROVEMENTS TO DODDABOMMASANDRA LAKE BENGALURU									
Est-6	WATER SUPPLY PIPE LINE FOR TOILETS AT KOGILU,KATTIGENAHALLI,AGRAHARA LAKE								
Sl No.	SPECIFICATIONS	No	L	B	D	QUANTITY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
6.1	**Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete, (external work).(P W D BCSR 2018-19, P-97, I-13.87.6 & 13.87.3)								
	32mm nominal OD pipes For Kogilu Lake	1	850.00			**850.00**	mtr	239.6	203626.00
	50mm nominal OD pipes For Kogilu Lake	1	850.00			**850.00**	mtr	457.9	389232.00
	32mm nominal OD pipes For Agrahara Lake	1	50.00			**50.00**	mtr	239.6	11978.00
	50mm nominal OD pipes For Chokkanahalli Lake	1	250.00			**250.00**	mtr	457.9	114480.00
6.2	**Providing and fixing in position brass gate valve with C.I wheel of approved quality** (screwed end) nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS (P W D BCSR 2018-19, P-97, I- 13.35,13.37								
	GATE VALUE(32MM Dia) For Kogilu Lake,agrahara, Chokkanahallli	10				**10.00**	nos	879.8	8798.00
	GATE VALUE(50MM Dia) For Kogilu Lake,agrahara, Chokkanahallli	10				**10.00**	nos	1843.3	18433.40
5.3	**Providing and placing on terrace, Polythylene water storage tanks** as per IS12701:1996 with manhole lid and suitable locking arrangements,making holes of suitable diameter for inlet, outlet and over flow pipes including cost of all materials,labours,transport charges,HOM and testing with all leads complete as per specifications **1000 liter** . (P W D BCSR 2018-19, P-67, I- 13.78)								
	For Agrahara lake	1				**1.00**	nos	7237.7	7237.68
	ADD 12% GST FOR ITEMS INCLUDED FROM PWD BCSR 2018-19								1,80,908.42
							Total (Rs.)		**1507570.16**

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Est-7

PROVIDING GRANITE BENCHES AT BESIDE PATHWAY

Sl No.	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (in Rs.)	AMOUNT (In Rs.)
7.1	**Earthwork excavation for foundation of buildings, culverts, watersupply, sanitary lines and electrical conduits** either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil; clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	SR Referance	PWD BCSR 2018-19 , PAGE NO.5 ITNO.2.3							
	Basic rate (₹)	299.00							
	AW (6%) (₹)	17.94							
	Total Rate (₹)	316.94							
	FLAT FORM	42	2.00	2.50	0.30	63.00			
						63.00	cum	316.94	19967
7.2	**Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40**mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD KCSR 2018-19, P-12 I-4.1)								
	SR	PWD KCSR 2018-19,Pg No,12,It No 4.1							
	BASIC RATE	5283							
	AREA WEIGHTAGE 6% (₹)	316.98							
	TOTAL RATE (₹)	5599.98							
		42	2.00	2.00	0.15	25.20			
						25.20	cum	5,599.98	141119

7.3	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. PWD SR 2018-19 PG.13 IT.4.6								
	SR Referance	PWD BCSR 2016-17 , PAGE NO.12 ITNO.4.6							
	Basic rate (₹)	5422.00							
	AW (6%) (₹)	325.32							
	Total Rate (₹)	5747.32							
		42	2.00	2.00	0.15	25.20			
						25.20	cum	5,747.32	144832
7.4	**Providing and fixing polished grey granite benches** of size 1.5M width of seating slab with bottom slab of 75mm thick with 0.45M width, back rest slab of 50mm thick with 0.45M depth, side and slab of 100mm thick 0.76M height including bull nosing of all edges including fixing in CC 1:2:4 of 2(0.4X0.8X0.2)M including loading , unloading and with all lead and lift etc complete and executing the work as per the directions of the Engineer in charge of the work								
	Approve DATA Rate	42				42.00	no	10,550.00	443100
7.5	**Providing Ceramic tiles of size 15 x 15cms of approved make**,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. _do_ for Ceramic Tiles of size 15x15cms 6mm thick (P W D SZ-SR 2018-19, P-106, I-14.36.1)								
	SR Referance	PWD BCSR 2018-19 , PAGE NO.106 ITNO.14.36.1							
	Basic rate (₹)	1124.00							
	AW (6%) (₹)	67.44							
	Total Rate (₹)	1191.44							
	ring bund	42	2.00	2.00		168.00	sqm	1,191.44	200162
	ADD 12% GST FOR ITEMS INCLUDED FROM PWD BCSR 2018-19								113902
	Total Amount Excluding GST								949181

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NAME OF THE WORK : PROVIDING PATHWAY CHILDREN PLAY EQUIPMENTS AND OTHER DEVELOPMENT WORKS IN PARK AT DODDABOMMASANDRA LAKE IN WARD 10

Est-8	PROVIDING ROCK FILL BUND								
Sl No.	SPECIFICATION	No	L	B	D	QUANTITY	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
8.1	Providing and constructing rockfill embankment with 300 mm down graded stones and quarry spalls from approved sources including cost of all materials, machinery, labour, spreading stones and spalls in layers, hand packing,wedging,finishing the surface to required slopes etc., complete with initial lead upto 1 km and all lifts. (MICB 2018-19. P-36 I-2.40)								
	FLAT FORM	1	65.00	2.00	2.80	364.00			
						364.00	cum	560.00	203840
8.2	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. PWD SR 2018-19 PG.13 IT.4.6								
		6	6.00	2.00	0.60	43.20			
						43.20	cum	5,747.32	248284
	ADD 12% GST FOR ITEMS INCLUDED FROM PWD BCSR 2018-19								54255
	Total Amount Excluding GST								**452124**

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